



Y-12 BULLETIN

A NEWSPAPER BY AND FOR EMPLOYEES OF CARBIDE AND CARBON CHEMICALS CORPORATION IN Y-12



Volume 2, No. 3

OAK RIDGE, TENNESSEE

Tuesday, January 20, 1948

Y-12 Men Among Group To Study Incorporation

Two employees of Y-12 are members of the important incorporation commission; appointment of which was authorized at an Oak Ridge Town Meeting held Monday, January 12 to investigate all aspects of incorporation of Oak Ridge as a municipality in the state of Tennessee.

Cooper, Lowry On Commission

Carl A. Cooper, Town Council chairman, heads the commission under provisions of the resolution asking for the investigation. Fes Lowry, who introduced the resolution, also is a member. Both Chairman Cooper and Lowry are Engineers in Dept. A16J, Wage Standards.

Other Oak Ridge residents on the five-member commission are Frank Wilson, D. F. Brown, Jr., and Mrs. A. H. Snell. The group already has begun work on its assignment. The group was selected, Chairman Cooper said, because of the experience, background, ability and availability of the members to undertake the investigation.

No Recommendation Planned

Findings of the commission will be reported to an Oak Ridge Town Meeting scheduled for Monday, March 8, when a capacity audience is expected at the high school auditorium to hear the report. Chairman Cooper has stressed

(Continued on Page 3)

Plant Attendance Again Improves

Although only four departments had perfect work attendance marks for the week ending January 11 compared to seven the previous week, the plant absenteeism as a whole showed improvement, dropping from 3.1 per cent for the week ending January 4 to only 2.7 per cent.

Firemen Have Perfect Record

In the major league of departments with more than 50 employees, Dept. A14J, the Y-12 Fire Department, jumped from 14th place held the preceding week to first place for the week ending January 11. The firemen had a perfect attendance record, the first major league department to turn in such a mark for several weeks.

In second place in the major league was Dept. A14N, Electrical Equipment Repair and Maintenance, with an absentee record of only .5 per cent. This department was in third place the previous week. Third place was held by Dept. B12H, with an absentee mark of .9 per cent. This group dropped from second place held the preceding week.

Three Tied In Minor League

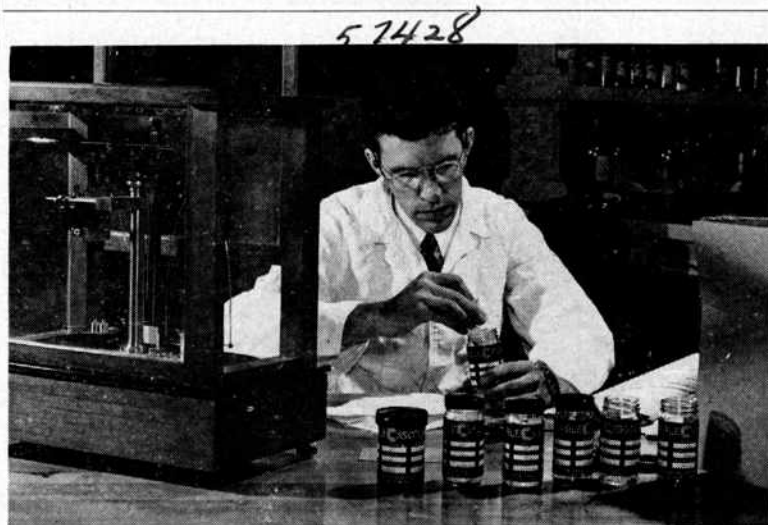
Three departments are tied at the top of the list in the minor league with departments of from 15 to 49 employees, all of them holdovers from the previous week and sporting perfect work attendance records for the second consecutive period. They are Dept. A12R, Cafeteria and Canteen;

(Continued on Page 2)

STAMP CLUB TO MEET

All Y-12 employees interested in information on stamp collecting are invited to attend the bi-monthly meeting of the Oak Ridge Stamp Club to be held at 8 p.m. Thursday in Room A105 at the high school.

First Stable Isotope Shipment From Y-12 Going To Ohio State



STABLE ISOTOPES ARE BEING PACKAGED AND PREPARED for shipment to five universities and the General Electric Co. by W. E. Foster, Research and Development Division, in the picture above. Other pictures on Page Three.

Industrial Relations Division Stages Fire, Safety Contest

Fire prevention, safety and security standards of the Industrial Relations Division is expected to be graded sharply upward as a result of a monthly contest being conducted among the nine departments in the division. The result of the first of these contests staged during the month of December, was announced last week.

Winner of the December contest was Dept. A15J, Recreation, with a score of 99 out of a possible 100 points. Other departments and their scores include Dept. A14J, Fire Department, 98.15; Dept. A13J, Security and Safety, 97.73; Dept. B12A Limited, 97; Dept. Dept. A12J, Industrial Services, 96.22; Dept. A12G, Guard Department, 95.16; Dept. A12R, Cafeteria and Canteen, 95; Dept. A12L, Employment, 89.34; and Dept. A12D, Dispensary, 89.

The purpose of the contest is to train employees in the division in observance of existing plant regulations concerning fire prevention, safety and security observance. An inspection committee views each department in the division monthly and submits a report that rates the various departments and also makes recommendations for improvements.

The inspection committee pointed out that in the December scoring, the most violations were charged for employees leaving their badges at home, a violation of security regulations. Untidy lockers and offices was the second place violation in the scoring.

Community Chest Member Meeting Set For Thursday

All Y-12 employees who contributed \$1 or more to the Oak Ridge Community Chest have been invited to attend the annual membership committee of the organization set for 3:30 o'clock Thursday afternoon in the East Lounge of the Ridge Recreation Hall.

At this session a nominating committee will submit a slate of candidates for the board of directors for 1948. However, nominations for the board of directors may be made from the floor. The board of directors, when confirmed by the membership, will select Chest officers for 1948.

Security Urges Proper Use Of Burn Baskets

Proper use of the red burn baskets distributed throughout the plant to receive documents, letters, memoranda, photographs and other classified material to be destroyed is urged by the Y-12 Security Office as a part of the plant security program to prevent any unauthorized information about Y-12 operations being released.

The burn baskets are numbered and are equipped with a lid. They are for the exclusive use of disposing of classified waste and documents designated as restricted. When the burn baskets are empty they should be placed in an upside down position. The burn baskets are inspected daily by a member of the Guard Department whose duty it is to empty the baskets and burn the contents.

Classified waste is described as material such as imperfect copies of documents, work sheets, notes, rough drafts and other written matter containing information classified as "confidential" or higher. No other matter should be placed in the burn baskets, particularly such unclassified items as unclassified waste paper, apple cores, orange peels, cigarette stubs or match stems. Items placed in burn baskets should be torn into shreds or completely broken.

Janitors Are Cautioned
Under plant security regulations janitors do not have access to burn

(Continued on Page 3)

EAGLES CHANGE MEETING

Y-12 members of the Oak Ridge Eagles Club are notified that the club will meet at 8 p.m. every Thursday night at Galesburg Hall in the future. Past meetings were held on Friday nights in the barracks area.

The first shipment of stable isotopes, developed and produced in Y-12 after many months of research and work by scientists here, will be made to the laboratories of Ohio State University tomorrow. Availability of more than 100 stable isotopes of 29 elements from the Carbide and Carbon Chemicals Corp. Y-12 laboratories was announced last month.

Closely following the shipment to Ohio State University, at Columbus, Ohio, will be consignments to five other nationally known institutions, which will use the isotopes in their laboratories for scientific research.

Five Other Universities, General Electric Co. Get Samples

The other recipients of the stable isotopes include the University of Wisconsin, Madison, Wis.; California Institute of Technology, Pasadena, Calif.; University of Chicago, Yale University, New Haven, Conn.; Princeton University, Princeton, N. J.; and the research laboratories of General Electric Co., Schenectady, N. Y.

The isotope samples were prepared for express shipment last week by the Y-12 scientists whose efforts resulted in the development of the products. They included samples of stable isotopes of Lithium, Boron, Magnesium, Nickel, Zinc, Lead, Silicon, Tin, Iron, Molybdenum, Germanium, and Selenium.

The largest variety of samples in the initial shipment will be sent to Ohio State University.

Scientists To Study Nuclear Properties

This institution will receive samples of six isotopes, including Molybdenum 92, Molybdenum 94 and Molybdenum 98, Germanium 70 and Selenium 74 and Selenium 76. These will be used by Ohio State University scientists for fundamental studies of nuclear properties by bombarding them with a 42-inch cyclotron. The shipment to General Electric will be a sample of Fe54, or iron, which General Electric will use for fundamental studies of nuclear properties by irradiating them with a 100,000,000 volt betatron.

Scientists and the general public throughout the nation are being advised of the shipments of stable isotopes from Y-12 through news releases by the Atomic Energy Commission.

The distribution program for stable isotopes provides for allocations to research laboratories of the country only on a loan basis as the supply at this time is limited and the production cost rather high. A "pool" of stable isotopes has been established from which individual laboratories may withdraw amounts for research purposes. On completion of the research work in which the stable isotopes are used or within a specified date the unadulterated isotopic material, whether in the original compound form or in another, is returned to the Isotopes Office, Carbide and Carbon Chemicals Corp., Oak Ridge, Tenn.

New Peacetime Benefits Will Result

Distribution of the stable isotopes from Y-12 is expected to open up new fields of scientific research as they will speed exploration of the structure of the atomic nuclei and basic understanding of highly important scientific problems and bring new peacetime benefits in many fields of investigation. Y-12 scientists stress the point that the stable isotopes are the by-products of research and have no direct connection with the atomic bomb development.

Development and production of the stable isotopes in Y-12 was done in the Research and Development Division, of which

(Continued on Page 3)

Send Reports Of Needed Repairs On Roads, Walks To C. B. Hopkins

To expedite emergency repairs on roads and sidewalks in Y-12, all reports on damage to these installations should be sent direct to C. B. Hopkins, general foreman in the Maintenance Division, in charge of roads and grounds. Hopkins' telephone number is 7-8244 and his address in Bldg. 9968.

Prompt action on such reports will be provided and all reports should designate the exact location and type of repair work needed. Employees on day shifts may

telephone or send their reports by plant mail while night workers may mail their reports.

Employees are urged not to include proposals to repair sidewalks or roads or other maintenance problems in filing suggestions for improvement of plant operation. Such maintenance and other routine matters should be taken up with departmental supervision, or, as in the case of walk and road repair, with Hopkins.

Y-12 Bulletin

Published Weekly By
Carbide And Carbon Chemicals
Corporation
Post Office Box P

Oak Ridge Tenn.
GEORGE W. DOBBS . News Editor
MARC V. SIMS . Asst. News Editor
ARNOLD TILLER . . . Sports

OFFICE
North Portal, Bldg. 9701-1
Telephone 7402 or 7-8252

Vets Hospitalization Here Already Has Waiting List

A sealed contract received by the Oak Ridge Hospital January 10 from the Veterans Administration at Washington which will provide free hospitalization for ex-service men with approved cases brings realization to a project originally proposed by Dr. Lucius A. Salisbury, director of the hospital, almost a year ago and which had become a major part of the program of the Atomic City Post, No. 199 of the American Legion.

Although the contract gives assurance of facilities at the hospital for 50 patients, admittance will be delayed a short time until all necessary administrative details have been worked out and which will place a Veterans Administration representative at the hospital on full-time duty. Dr. Salisbury said the Veterans Administration District office at Knoxville already had a number of veterans waiting to be hospitalized here.

Veterans who seek hospitalization at the Oak Ridge Hospital must first receive authorization from the VA District office at Knoxville, it was pointed out. Exemptions to this provision will be in cases of those veterans who already have rated service connected disabilities and become emergency cases because of the connected disability.

Plant Work Attendance In Y-12 Again Improves

(Continued from Page 1)

Dept. B12A, Superintendents; and Dept. A12T, Garage Repair Shop. Second place in the minor league was held by Dept. A13T, Transportation, with an absentee mark of 1.1 per cent. This department held a similar position last week. Dropping from a tie for first place for the week ending January 4 to third place for the next week was Dept. A12L, Employment, which had an absentee mark of 1.3 per cent.

The plant absentee mark by departments for the week ending January 11 follows:

MAJOR LEAGUE More than 50 Employees			
Dept.	Percentage Absent	1-11-48	1-4-48
A14J	0.0	1	14
A14N	0.5	2	3
B12F	0.9	3	1
H12D	1.7	4	4
A17N	1.8	5	15
A12G	1.9	6	6
A13N	2.0	7	10
H12L	2.3	8	2
A12W	3.0	9	12
A16N	3.1	10	9
H12E	3.15	11	8
B12L	3.17	12	16
B13L	3.17	12	5
A12S	3.7	13	13
B12C	4.1	14	11
M12P	5.3	15	7
A12M	5.9	16	17

Group absentee percentage was 2.5 per cent, .7 per cent lower than the preceding week.

MINOR LEAGUE 15-49 Employees			
Dept.	Percentage Absent	1-11-48	1-4-48
A12R	0.0	1	1
B12A	0.0	1	1
A12T	0.0	1	1
A13T	1.1	2	2
A12L	1.3	3	1
A19N	2.7	4	1
M12S	2.9	5	6
A12A	3.2	6	4
M13P	3.3	7	1
A13S	3.8	8	1
A15N	4.9	9	5
A12N	5.7	10	3
A12D	7.1	11	8
B13C	10.0	12	7

Group absentee percentage was 3.2 per cent, .9 per cent higher than the preceding week.

The plant average for the week ending January 11, 1948, was 2.7 per cent, .4 per cent lower than the preceding week.

The consequence of careless handling of restricted data can be grave.

Artificial Respiration Big First Aid Factor

One of the most important features of the first aid instruction now being offered all Y-12 employees is the training in the use of artificial respiration. This instruction is included in the 15-hour course now being given to 11 groups of approximately 12 members each, and is a part of the overall training offered under the Y-12 Plant Emergency Plan. Certain accidents, the most frequent of which are electrical shock, gas poisoning or drowning, cause stoppage of breathing. Asphyxia, or suffocation, with first unconsciousness and then death, occurs shortly after breathing stops.

Many Lives Saved Annually

Prompt application of artificial respiration to victims of such accidents has saved approximately 50,000 lives annually, although 12,000 persons die from these mishaps.

Artificial respiration is a method by which normal respiration is imitated by manual movements to restore breathing. These manual movements consist in alternately compressing the lungs, then releasing the pressure, thus causing air to flow in and out. As it is impossible to influence muscular action in an unconscious person to produce normal respiration it is necessary to depend on the manual means of forcing air from the lungs by compression and on the natural elasticity of the walls of the chest cavity plus the drop of the arch of the diaphragm to draw fresh air into the lungs when the compression is released.

Schaeffer Method is Used

In the Y-12 first aid course, the Schaeffer method of artificial respiration as used by the United States Bureau of Mines safety officials is taught.

In many cases where breathing has ceased or apparently ceased, heart action continues for a limited time. If fresh air is brought into the lungs so that blood can obtain needed oxygen from the air, life can be sustained in many cases.

However, every minute of delay in starting application of artificial respiration to an accident victim whose breathing has stopped is serious. Work should be started at once, even if breathing is so faint that it cannot be detected by a layman, and should continue until natural breathing is restored or the victim pronounced dead by a physician.

Performers Sought For Lions Minstrel

Any Y-12 employee who can do a specialty dance number, sing, recite, or do card or rope tricks, is urged to show up at the Grove Hall at 8 o'clock tonight for try-outs for the second half of the old-fashioned minstrel the Lions Club will stage at the high school auditorium at 8:15 p.m. February 26, 27 and 28.

About 30 members of the Lions Club will provide entertainment for the first half of the show which will include the old time minstrel circle, end men, an interlocutor, and a bag full of gags inspired by local happenings. Dr. C. P. Keim, of Y-12, is acting as coordinator for the show.

All tickets will be reserved and are 80c, tax included. Announcement as to where tickets may be obtained will be made later.

Ridge Veterans At District Meet

The Tennessee State District meeting of the Veterans of Foreign Wars, held last Thursday at Oneida, Tenn., was attended by 30 members of the Raymond C. Mason Post, No. 6351, it has been announced by W. E. Elam, Senior Vice Commander and a captain in the Y-12 Fire Department.

Elam also said that the post membership drive was nearing the goal of 750 set for 1948 by ready has exceeded the goal of 500 members set by the state department of the V. F. W. for Oak Ridge.



ARTIFICIAL RESPIRATION TRAINING is being given a group of Y-12 employees as a part of a 15-hour first aid course. In this picture some Maintenance Division employees, including electricians, mechanics and millwrights; are practicing the Schaeffer method of artificial respiration involving a change in operators and patients. At extreme left is Nelson Tibbatts, one of the instructors of the group. On the floor as patients are G. B. Berney, S. B. Ward and R. L. Roberts. On knees but erect are Conrad Roberts and C. J. Beckett. Applying treatment are M. C. Gore, I. H. Hall, W. P. Gore and Wiley Cook. Standing at left is Jim Wilson, also an instructor, who is pointing out the procedure to W. S. Miller.



KEATHLEY—MAULDIN

The marriage of Miss Dorothy Neild Mauldin, formerly of Dept. B12L, to Franklin Burr Keathley took place January 11 at the Myers Park Presbyterian Chapel in Charlotte, N. C., with Dr. J. A. Jones officiating.

The bride, who was given in marriage by her father, wore a white velvet gown, fashioned with a lace yoke, and fingertip veil of illusion. She carried her paternal great grandmother's lace handkerchief and a white prayer book topped with orchids.

Miss Betty Mauldin, the bride's sister, was maid of honor. She wore a blue silk jersey dress and carried a bouquet of talisman roses. Jo Ann and Caroline Elliot, the bride's nieces, were flower girls. They wore yellow organdy dresses.

William H. Keathley, the groom's father, was best man, and the ushers were J. D. Elliot, Robert M. Mauldin, Jr., Roy B. Cook, Jr., and Richard Ferguson.

Y-12 employees who attended the wedding were Catherine Carroll and Daisy Brogan, of Dept. B12L, and Allen Townsend, of Dept. M12P.

Mr. and Mrs. Keathley are making their home at San Antonio, Tex.

Daughter of Mr. and Mrs. Robert M. Mauldin, of Charlotte, the bride is a graduate of Owens College, of Charlotte.

Keathley is the son of Mr. and Mrs. W. H. Keathley, of Memphis, Tenn. He attended Union College, Jackson, Tenn., and the University of Tennessee.

Hospital List

The following Y-12 employees were patients in the Oak Ridge Hospital last week: Ernest Z. Hawk, Dept. A16N; Frederick Uffelman, Dept. M12M; Vernal C. Nance, Dept. A12G; Randall B. Amas, Dept. A13N; Roy B. Blankenship, Dept. A12G; John Lee Horton, Dept. H12E; Jacob F. Manne-schmidt, Dept. H12L; Juanita W. Moore, Dept. B12L; Cordia Bled-soe, Dept. A12D; Charles M. West, Dept. M12P; Beta D. Butler, Dept. A16J; Thomas J. Golightly, Dept. B12L; John S. Luce, Dept. H12E; Fred Marble, Dept. A15N; Dorothy E. Lockhart, Dept. M12P; Ben C. Harrison, Dept. A12M.

Insure the safety of the nation by protecting all unreleased information concerning plant operations and equipment.

Additions To Y-12 Technical Library

Science

Q-111-Ref.—Hawkins, R. R., ed., "Scientific, Medical, and Technical Books published in the United States of America, 1930-1944." Washington, National Research Council, 1946. 1,114 pages.

Mathematics

QA-263—Frazer, Duncan, and Collar, "Elementary Matrices." Cambridge, University Press, 1947. 416 pages.

Physics

QC-21—Frye, Royal M., "Essentials of Applied Physics." N. Y., Prentice-Hall, 1947. 322 pages.

QC-291—Swietoslawski, W., "Microcolorimetry." N. Y., Reinhold Publishing Corp., 1946. 199 pages.

Chemistry

QD-461—Speakman, J. C., "Modern Atomic Theory; an Elementary Introduction." London, Edward Arnold and Co., 1942. 207 pages.

Technology

P-51—Ref.—Harbarger, Dumble, Hildreth, and Emsley, "English for Students in Applied Sciences." N. Y., McGraw-Hill, 1938. 260 pages.

TK-4900—Brown, Hayler, and Bierwirth, "Theory and Application of Radio-Frequency Heating." N. Y., Van Nostrand, 1947. 370 pages.

TK-6560-Ref.—United Catalog Pub., "Radio's Master; Official parts and equipment Manual," 12th ed., second printing. N. Y., United Catalog Inc., 1947.

TK-6565—King, Mimno, and Wing, "Transmission Lines Antennas and Wave Guides." N. Y., McGraw-Hill, 1945. 347 pages.

Periodicals

"Medical Radiography and Photography," beginning with December, 1947 issue.

Legion Drive Progresses In Y-12

The American Legion membership drive at Y-12 under the chairmanship of Hugh Rice, of the Time Keeping Department, has reached the halfway mark in its goal for 50 new members for the Atomic City Post, No. 199. Assisting Rice and acting as membership captains at Y-12 are Woody Palmer, Charles E. Gilliland and Ira Shotts.

Rice is a member of the Blues team in the post's membership drive and reports his side is now 13 members ahead of the Red team. First half of The Legion's 1948 drive for new members will end this week when the Reds and the Blues with their wives will hold a bean supper at the Jefferson Recreation Hall at 7 o'clock Thursday night. The losing team will act as KPs for the winners. Chief speaker at the bean supper will be Gordon Browning, former governor of Tennessee and political advisor to Gen. Lucius Clay in the E. T. O.

Camera Club Plans Monthly Meetings

As a result of a decision made at its last Tuesday night meeting, the Carbide Camera Club will convene but once monthly on the second Tuesday night of each month for a trial period of 90 days, it has been announced by F. F. Calloway, the group's president, who said that the plan would be further discussed at the end of that time.

The next meeting has been set for 7:30 p. m., Tuesday, February 10, at the club's headquarters in the Y-12 East Portal building, and although a program for that night has not been completed, new rules are being worked up for the slide competitions. Black and white minimum print sizes will be 8 by 10 inches and all prints must be mounted on standard 16 by 20 inch mounts. Any prints shown must have been taken within a year of the date of exhibition. Color competitions will hereafter be limited to single subjects.

Calloway said that members of the Carbide Camera Club have been invited to a February 3 dinner party at the Central Cafeteria which will be sponsored by the Oak Ridge Camera Club, and that his club will put on a showing of 50 color slides for the occasion.



Only one birth was reported to Y-12 families at the Oak Ridge Hospital last week. Mr. and Mrs. James D. Hayes became parents of a son, January 14.



Geneva Henson, Dept. B12H, spent a recent weekend in Pine Knot, Ky. . . . Verney Sharp spent several days with her sister in Oak Grove, Tenn., recently. . . . Lissie Reynold has returned after visiting her mother in Habersham, Tenn. Pauline and Charlie Williams visited Middlesboro, Ky., recently and checked on their new cave which they have been operating for the past few weeks.

John Byrd, Dept. B12L, is spending a vacation in Mt. Olive, Miss., bird hunting. Inez Heatherly returned after spending a vacation in Elyria, Ohio and Baltimore, Md. Dept. A12N sends get well wishes to Helen Sisson who is ill.

Dept. A12S extends sympathy to B. B. Thornton whose father, a resident of Kingsport, Tenn., died after a heart attack at the Stevens Hotel, Chicago, Ill. January 8. Artie (Jackie) Tankersley has returned to work after an extended illness. The department welcomes her back. . . . D. A. Karraker and W. B. Prince have returned from vacations.

J. D. Chew, fireman, Dept. A14J, has returned from vacation.

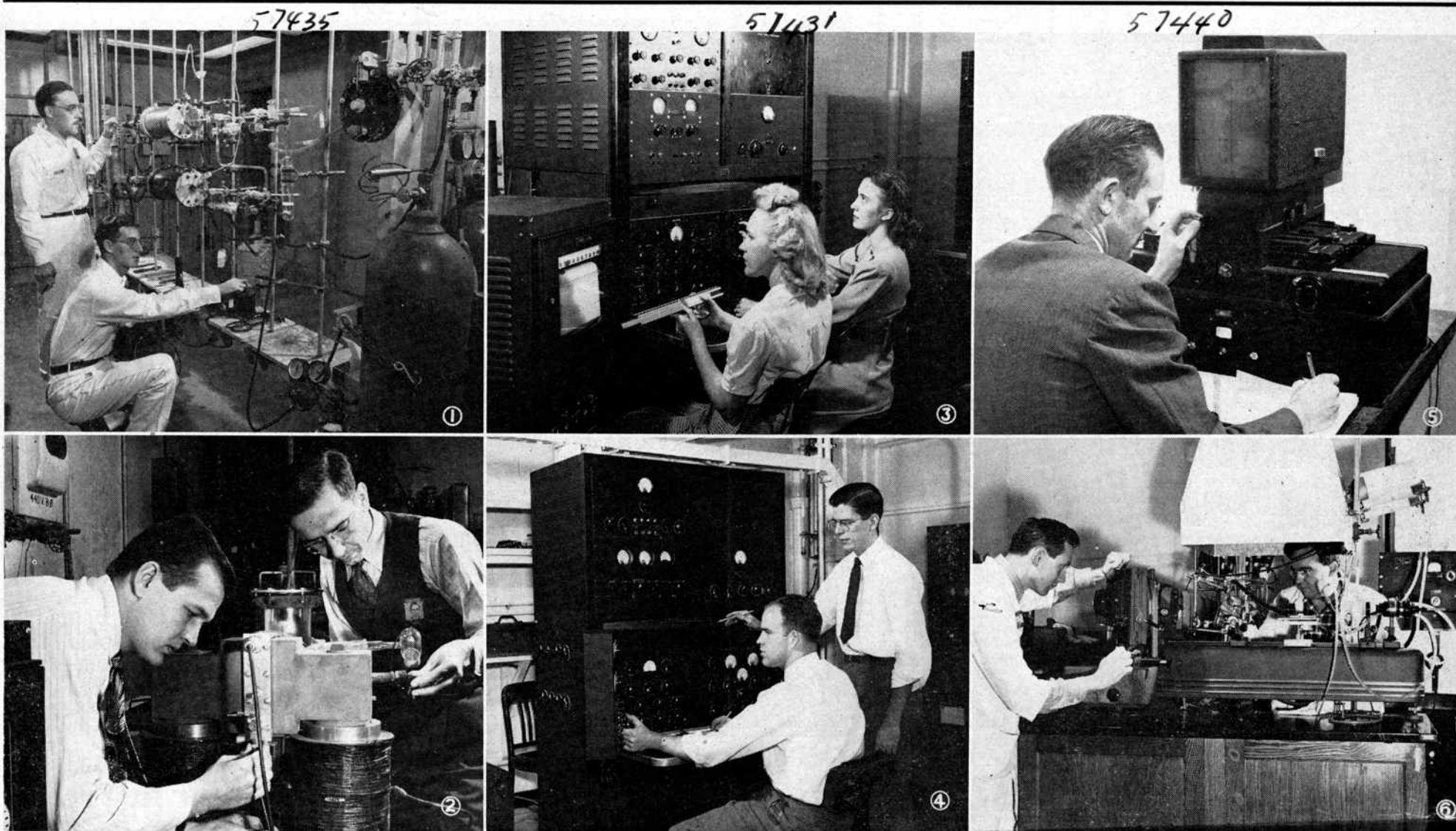
L. H. Taylor and H. H. Neal, Dept. A12G, are vacationing this week. . . . Sgt. D. B. Williams and family visited Sevierville, Tenn. during his last break. . . . Mr. and Mrs. Robert Hence and daughter have returned to South Bend, Ind., after spending the Christmas holidays with Mrs. Hence's parents, Mr. and Mrs. P. C. Dobbs.

Six Y-12 Folks Sing In Chorus

The Community Chorus' Tuesday night rehearsals for the March production of "The Merry Widow" have already begun at the Elm Grove School kindergarten room, but tryouts for soloists are being continued. Y-12 folks who still wish to take singing parts in the production are advised to call Donald Grisier, phone 5-2221.

Y-12 employees who are members of the Community Chorus include Helen Hicks, Dept. B12L; J. D. Redman, Dept. B12L; B. Cameron, Dept. M13C; Paul Ward, Dept. A12J; and Joyce Merry and Judy Ward, both of Dept. A12P.

Phases Of Stable Isotope Production By Y-12 Scientists



Y-12 PHOTOS BY VINCENT MOORE

VARIOUS PHASES OF ACTIVITY IN Y-12 in connection with the production of more than 100 stable isotopes of 29 elements are shown in the pictures above. No. 1—The assembly used in the preparation of samples for isotope mass analysis in the Y-12 isotope chemistry laboratory under charge of Boyd S. Weaver. In the picture, left to right, are L. O. Gilpatrick and F. M. Scheitlin. No. 2—A trochoidal mass spectrometer constructed for the mass analysis of isotopes

in the isotopes physics laboratory of Y-12 under charge of L. E. Burkhart. Left to right in the picture are G. W. Monk and G. K. Werner. No. 3—Mass spectrometer for analysis of stable isotopes in the mass spectrometer laboratory of which R. F. Hibbs is in charge. The mass spectrometer laboratory is part of the Chemical Division, of which J. M. Herndon is Superintendent. In the picture are, left to right, D. I. Whaley and D. V. Hill. No. 4—The specialized mass spectrometer for

stable isotope analysis also is in the mass spectrometer laboratory and a part of the Chemical Division. Left to right in the picture are J. W. Redmond and R. F. Hibbs. No. 5—Measurement of isotope spectra with a densitometer in the isotopes physics laboratory in charge of L. E. Burkhart, shown in picture. No. 6—Making hyperfine studies of isotopes in the isotopes physics laboratory. Shown in the picture are, left to right, Sam Adams and O. C. Yonts.

First Stable Isotope Shipment From Y-12 Going To Ohio State

(Continued from Page 1)

Dr. C. E. Larson is Director. Dr. C. P. Keim is Superintendent of the Isotope Development Department, in which all phases of isotope research and production was carried out, with the exception of isotope analysis by the mass spectrometer. These analyses are performed in the Mass Spectrometer Laboratory under direction of Roger F. Hibbs. This laboratory is a part of the Chemical Division, of which Jesse M. Herndon is Superintendent.

Several Sections Contribute To Work

Several sections of the Isotope Development Department are necessary in the investigations and work necessary in the electromagnetic separation of stable isotopes of a large variety of elements. These sections include Isotope Production and Development, H. Wesley Savage in charge; Isotope Chemistry, Boyd S. Weaver in charge; Isotope Physics, L. Elkin Burkhart in charge; and Materials Laboratory, Cliff B. Graham in charge. Staff physicists for the entire department are Dr. C. R. Baldock and Dr. C. E. Normand.

Production of the stable isotopes in Y-12 followed alteration of the electromagnetic process plant equipment that made it possible to separate isotopes of elements other than uranium. The new processes here enable Y-12 to produce much larger quantities of stable isotopes than formerly were available as heretofore stable isotopes have been concentrated in amounts too small to be seen with the naked eye.

Can Be Concentrated In Appreciable Amounts

Under the Y-12 process stable isotopes now can be concentrated in amounts that can be weighed and handled like ordinary rare chemicals.

Some of the peacetime uses to which the stable isotopes produced in Y-12 are expected to be put include:

1. As tracers in medical and biological studies where radioactive isotopes cannot be used because of the harmful effect of radiation on living tissues.

2. As tracers in medical, biological and agricultural studies where the radioactive isotope is not suitable because of its short half-life. Copper-63, a stable isotope, can be used in agricultural studies over a period of years where the use of radioactive isotope Copper-64 is limited because

Security Urges Proper Use Of Burn Baskets In Y-12

(Continued from Page 1)

baskets and under no circumstances are janitors to empty them.

When any employee has material to place into a burn basket after it has been emptied the material must be placed in a locked depository until the following day when the material may be placed in the burn basket for destruction.

Anyone desiring further information on use of burn baskets or the type of material to be placed in them may obtain it from the Security Office, North Portal, telephone 7125.

STRANGE REFUGE SOUGHT

A recent news dispatch from New York described the fright of Edward Sweeney when his bed caught fire in a rooming house. He ran to a door, opened it, ran through and slammed it shut behind him. Firemen heard a knocking and opened a door. There was Sweeney—in a closet.

Instructions that are worth giving at all are worth repeating. One blow will not drive a nail.

of its short half-life of 12.8 hours, after which it becomes ineffective.

3. As starting material for the production of particular radioactive isotopes which cannot otherwise be easily separated.

4. In spectroscopic studies of individual isotopes that reveal much valuable and previously unavailable information on atomic structure through the observation of optical spectral lines emitted by atoms which have been bombarded by electrons.

5. In investigations of nuclear moments and nuclear transformation induced by bombardment with various particles. Such data is necessary in the development and advancement of the present nuclear theory.

Chemical Group To Meet Friday

The East Tennessee Section of the American Chemical Society will hear Dr. Anton A. Benedetti-Pichler, of Queens College, New York, speak on the subject, "Gamma Methods in Microchemistry," at Ridge Hall Friday night, January 23. The meeting, which will be open to the public, has been scheduled for 8 p. m., and will follow a dinner party for members at the Central Cafeteria set for 6:30 p. m.

H. P. House, of Dept. H12D-14, and the Y-12 member of the arrangements committee, in making the announcement, said that the society had more than 200 members in this section, most of whom are Oak Ridge residents. C. D. Susano of Y-12 is chairman of the East Tennessee Section.

FLACK HEADS DRIVE

George W. Flack, of K-25 Carbide and Carbon Chemicals Corp. plant, has been selected as chairman of the fund raising drive to be staged by the American Red Cross in Oak Ridge. The campaign will be launched in March. Directors of the Oak Ridge chapter of the Red Cross made the appointment.

Y-12 Men On Group Named To Study Incorporation

(Continued from Page 1)

the point that the report of the commission will cover as much information as the group is able to assemble and that its principle purpose will be to gather all facts pertinent to the question but that it will not include a recommendation either for or against incorporation.

The problem of incorporation, Chairman Cooper said, will be up to the residents of Oak Ridge after they hear the report.

Will Confer With AEC

In its deliberations, the incorporation commission will include conferences with the city management division of the Atomic Energy Commission and other sources in its effort to gain every possible bit of information on the subject, Chairman Cooper said. The chairman also declared the commission will welcome any helpful suggestions in its work and that communications should be addressed to P. O. Box 2101, Oak Ridge.

STERN CONCERT PLANS TOLD

Members of the Oak Ridge Civic Music Association will be admitted free of charge to the February 7 concert at the Grove Theater by Isaac Stern, violinist, and the Oak Ridge Symphony Orchestra, it has been announced by the board of directors of the association. Non-members of the association who contribute \$5 toward expenses of the concert will be entitled to two tickets. Members and contributors will be given priority in seating in advance ticket distribution, expected to start the latter part of this week. After these tickets have been distributed, remaining seats will be placed on sale to the public.

Observance of security regulations is a continuous duty of every Y-12 employee.

**CARBIDE AND CARBON
CHEMICALS CORPORATION**

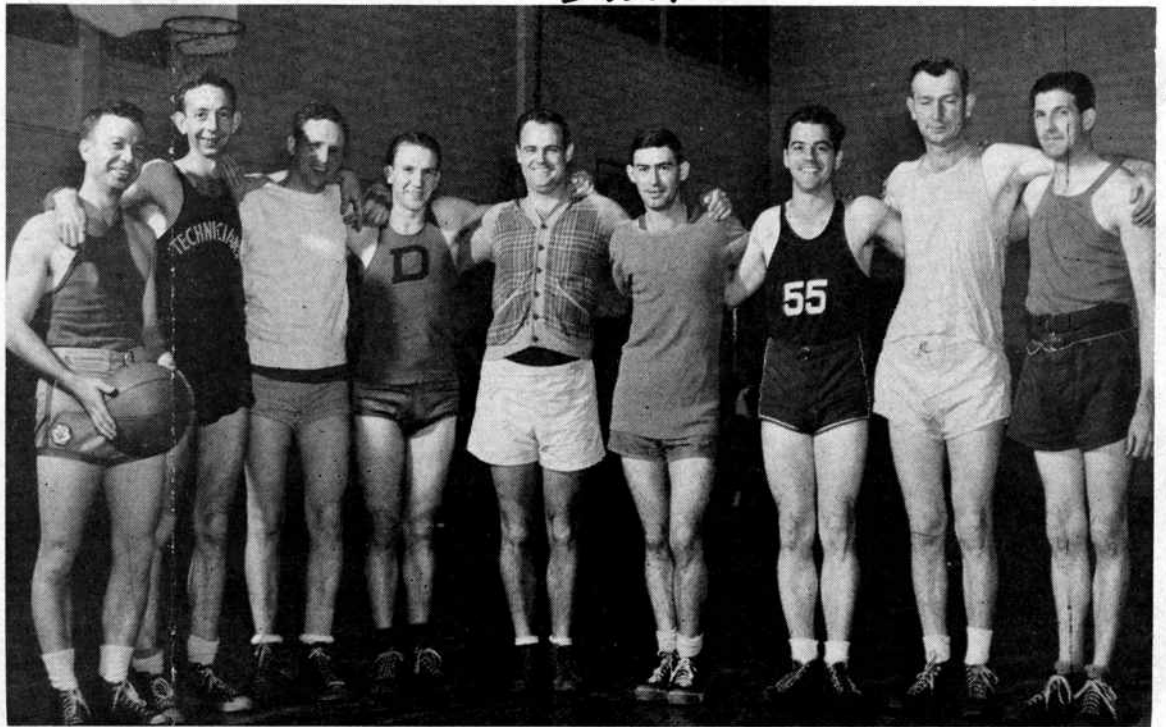
P. O. Box P.
Y-12 Area
Oak Ridge, Tenn.

(RETURN POSTAGE GUARANTEED)

Sec. 562, P.L.&R.
U. S. Postage
PAID
Oak Ridge, Tenn.
Permit No. 3

SPORT NEWS IN Y-12

57571



Y-12 Men Cagers Take Thriller; Women Basketeers Are Defeated

Y-12's basketball pennant hopes in two city leagues received an impetus and a jolt in two crucial games last week when the men took a 23-32 thriller from the Community Stores in the City Recreation League and Coach Bill Davis' lassies, after a bitter battle all the way, lost 29 to 40 to a big and well-drilled Roane-Anderson aggregation.

Overcoming a 12-9 halftime deficit, the Y-12 boys tied it up in the third quarter on a count of 17-all; then took a slim lead and proceeded to protect the margin by a man-to-man defense. John Sewell lead the scoring for Y-12 with 10 points, followed by Rackley with six, Clevenger four, Baer two, and Dodson one.

WoodChoppers Whack Splinters; Top D Loop

The rejuvenated Wood Choppers whittled three points off the Splinters last Tuesday night at the Jefferson Alleys and thereby took command of the D Area Bowling League leadership on the strength of their seven wins against a single reverse. An even splitting of points with the Old Men harnessed the Termites into a second place tie with the Strikers who nicked the Calutrons for three points. Both the Termites and the Strikers sport six and two recordings.

Ratjen Rolls 217 Scratch Game

Harold Ratjen, the new Wood Chopper, rolled a second round record high with a 217 scratch game, and marked up top handicap scoring for the night with a 256 single game and a 644 for series. Ratjen also had 527 for scratch series. High scratch series for the night, however, was chalked up by H. D. Duncan, of the Scotties, with a 548. Phil Rueff, Termites, rolled a 214 scratch game and a 527 series while teammate Wes Savage had a 523 scratch series. Nelson Tibbatts, Scotties, rolled up a scratch of 501 for three games, and Leo Caldwell, Splinters, was next in line with a 502. The Scotties rolled high scratch games of 816 and 998, and the Termites captured high scratch series with a score of 2,341.

D Area League matches on tonight's bill are the Strikers vs. Old Men; Splinters vs. Overheads; Calutrons vs. Wood Choppers; and Termites vs. Scotties.

League standing follows:

Team	W	L	Team	W	L
W. Choppers	7	1	Scotties	5	3
Termites	6	2	Old Men	2	6
Strikers	6	2	Splinters	1	7
Calutrons	5	3	Overheads	0	8

Women Bowlers Keep Losing Streak; Upset By Clintons

Continuing in a slump started week before last, the Y-12 bowling lassies again lost another series of games in the Women's CEW Bowling League when they dropped two out of three games to the leading Clinton Lab gals last Thursday night at the Grove Alleys. After copping the first tilt by the score of 666 to 650, Y-12 fell short on the next two by tallies of 632 to 697 and 644 to 670.

That the Y-12 girls were slightly off stride is shown by the following individual scoring of Margaret Solomon, 138, 161 and 124; Ann Hart, 121, 126 and 150; Ann Prestin, 131, 115 and 96; Daisy Brogan, 143, 93 and 123; and Lora Tucker, 128, 132 and 146.

The Y-12 varsity bowling quintet, now residing in fourth place, will tangle with the ninth positioned K-25 girls Thursday night at the Grove and should make it a three-game clean sweep.

League standing follows:

Team	W	L	Team	W	L
Monsanto	31	14	O. D. Drug	21	24
R-A	28	17	Ford Motors	20	24
Fairchild	28	17	K-25	20	25
Y-12	27	18	G. Mch's	19	26
Morats	24	21	P. V. Mch's	18	27
Jeffs	21	24	Laundry	12	33

Avoid off the job discussions of the job.

Although winning by a narrow margin, John Sewell and Co. tied up the loop leadership with the Atomic Energy Commission Independents who lost to the Clinton Lab outfit by a score of 28 to 54. The Y-12 record now stands at three won and one lost. Last night Sewell's team played the Wildcats Den, another strong team, and next Monday night at 7:15 o'clock, play the Jaycees at the Linden School gymnasium.

Four Vets Play Well

The four veterans, Dot Mellen, Judy and Alta Lowe, and Helen Brown, along with the newcomers on Coach Davis' squad played their hearts out for most of the first quarter and swapped point for point with the Roane-Anderson gals. But the R-A height plus the precision that only comes with much practice proved too much for the Y-12 girls who dropped behind 15 to 24 at halftime and couldn't catch up. Dot Mellen played in All-American style at guard and frequently stole the ball from the R-As. Frantie Rich sparked most of the Y-12 offense and was in most every play.

Judy Lowe at forward continued a hot scoring streak started in the first game and rang up 10 points against Roane-Anderson. Helen Brown made six points but drew closer guarding than other Y-12 player. Margaret Baker hit for two field goals and an added point on a charity shot. The Y-12 floor work was marked by spirited play through the game but the passing was ragged part of the time which hurt as the ball was lost to the R-As on these occasions.

Play AEC Girls Tomorrow

Y-12's next game in the CEW Women's Basketball League is against the Atomic Energy Commission girls and is scheduled for 7:15 o'clock tomorrow night at the Jefferson gymnasium.

Four Y-12 Men Join Power Group

When the Oak Ridge Power Squadron holds its third graduation dinner Thursday night at the Edgewood Restaurant, it will induct into the organization four Y-12 men, it was announced by W. C. Tunnell, the group's treasurer. These four, Walcott Watson, Jack M. Case, E. E. Kennedy and W. E. Brundage, recently completed the power squadron's last class in piloting and small boat handling.

The dinner will be attended by 42 members, their wives, the nine successful graduates to be inducted, and two special guests, Harry E. Carper, president of the Oak Ridge Lions Club, and Lieutenant Bingarde, of the United States Naval Reserve stationed at Knoxville.

Bride: "No, dear, I do not think that is your first kiss. That kiss shows you have had experience."

Groom: "Yes, but how do you know?"

Bldg. 9212 In Tie With Comet Keglers

Bldg. 9212 keglers raised themselves out of fourth place and into a top spot tie with the Comets after slaughtering the Wood Butchers for a clean sweep last Thursday night at the Grove Alleys in Plant Bowling League rolling. Both teams sport 16 on the winning side and four on the losing side.

The Comets rolled the night's high team scratch with a mark of 888 for a single game, and the Rippers had the handicap with 1,050. Scratch series also went to the Comets with 2,449, while the Big-uns rolled 2,886 for handicap series high. Individual scratch game high honors went to Schultz who had a 211. Hibbs chalked up the top tally for a single game handicap high with a 246. Gragg rolled series scratch tops with a 555 and also high handicap series with 639. Grappe rolled a 201 scratch game, Schultz, a 211, and Hibbs a 202.

Team standing follows:

Team	W	L	Team	W	L
Comets	16	4	Chemical	8	12
Bldg. 9212	16	4	Rippers	8	12
Wolves	15	5	W. Butchers	7	13
Bums	13	7	One-91	6	14
B. Busters	10	10	K. Holers	6	14
L.Jacks	10	10	Big'uns	5	15

Recreation Body Elects Officers

The city manager's newly appointed recreation council met last Tuesday and elected Dr. J. E. Murphy president of its group, E. L. Benedict, vice-president, and Mrs. E. A. Littleton, secretary-treasurer. The council is composed of, besides the officers named, H. L. Huffman, C. Vanden Bulck and Marc Sims. It will meet again January 27 at which time recreation phases of city management's master plan will be discussed.

Walking along a street in the local county seat, a man was attracted by frightening screams from a house. He ran into investigate and found a frantic mother whose small boy had swallowed a quarter. Seizing the child by the heels, he held him up, gave him a few shakes and the coin dropped to the floor. The grateful mother was lost in admiration.

You certainly know how to get it out of him," she said. "Are you a doctor?"

"No, madam, I'm from the Internal Revenue Bureau."

Plant Loop Schedule Revised; Rough House Five Out In Front

Revision of the Plant Basketball League schedule calls for all remaining games in the first half to be played at the Scarboro School gymnasium, it has been announced by Arnold Tiller, Supervisor of the Y-12 Recreation Department. The change which meets the expressed approval of players, team captains the Fairview School gymnasium was considered too small for league play. The revised schedule follows:

Wednesday, January 21—Kilroy vs Bldg. 9212, 6:30 p. m.; Rough House Five vs. Guards, 7:45 p. m.; Bottle Necks vs. Time Office, 9 p. m.

Friday, January 23 — Bottle Necks vs. Bldg. 9212, 6:30 p. m.; Rough House Five vs. Kilroys, 7:45 p. m.; Guards vs. Time Office, 9 p. m.

Monday, January 26 — Rough House Five vs. Guards, 7 p. m.

Wednesday, January 28—Rough House Five vs. Time Office, 6:30 p. m.; Guards vs. Bldg. 9212, 7:45 p. m.; Kilroys vs. Bottle Necks, 9 p. m.

Friday, January 30 — Rough House Five vs Bldg. 9212, 7 p. m.; Guards vs. Bottle Necks, 8:15 p. m.

The January 26 game between the Rough House Five and the Guards is a postponed affair and will be played at Fairview. All other contests are booked for Scarboro.

The second half of the season will begin February 4.

Leaders Take Two Games

The Rough House Five now rule the roost in the league as a result of twin wins in last week's play, a 46-20 victory over the newly formed Bottlenecks and a slim 22-20 triumph over the Time Keepers. The loop leaders have recorded six wins against a single defeat, while the Time Keepers, trailing in second place, show eight in the win column and two losses.

A strong defense by the RH Five played an important part in their defeat of the TK boys as close guarding by Grimes held Kimbro to a lone field goal. However, nothing seemed to interfere with the shooting of the TK's other ace, "Knobby" Green, as he drummed the nets with six field goals plus two free throw shots for 14 points.

Time Keepers turned back the Bottle Necks by a score of 34 to 26 Monday of last week, with Kimbro and Green getting six points each and Freels leading with eight counters. Jeffries, for the Bottle Necks, topped both teams with his

Varsity Keglers Near Top; Clash For Lead Tonight

A clean sweep of three games over the NEPAs of Fairchild last Tuesday night at the Central Alleys enabled the Y-12 varsity keggers to seriously threaten K-25's leadership of the City Industrial Bowling League. That leadership will be very much at stake tonight at Central when Capt. "Sky" Barker's team tangles with the K-25 lads as the first and second place separation is based on a thin two-game margin.

Y-12 captured the first stanza, 828 to 743; took the second, 833 to 785; and added the third game on scores of 816 to 766. The team's individual scores were Cobble 144, 169 and 177; Beckett 157, 148 and 152; ZaBenco 167, 173 and 180; Barker 156, 158 and 150; and Roberts 204, 185 and 157. Roy Roberts maintained his 176 average and continued as the loop's kingpin. Significant, perhaps, was the fact that K-25 dropped two in the three-game series against Roane-Anderson last Tuesday night.

League standing follows:

Team	W	L	Team	W	L
K-25	37	17	R-A	28	26
Y-12	35	19	Fairchild	15	39
AEC	35	19	Skidmores	12	42

WILSON "MAN OF YEAR"

Frank W. Wilson, Commander of Atomic City Post, No. 199, American Legion, and an attorney was named "man of the year" for Oak Ridge in a poll conducted by the Oak Ridge Junior Chamber of Commerce. The award was made for "outstanding service to the community and Wilson will receive a distinguished service award key from the Jaycees at a banquet in the Grove dining hall Friday night.

10 points. Last Wednesday night the Kilroys took a 26 to 16 conquest of the Bldg. 9212ers when the "was here" boys made good 10 of 17 free throw attempts based mostly on the individual efforts of John Sewell, who made four out of six.

League standing follows:

Team	W	L	Team	W	L
RH Five	6	1	Kilroys	3	6
Time-Keeps	8	2	Bldg. 9212	1	7
Guards	5	2	Bottlenecks	0	3